Author Index, Volume 160

Abernathy CM, 647
Abu-Elmagd KM, 90
AbuRahma AF, 266
Adam R, 105
Adenis A, 443
Ainslie N, 434
Akagi M, 271
Allen R, 618
Alpert J, 160
Anderson RJ, 151
Andriole DP, 669
Applebaum R, 221
Attie JN, 333
Auguste L-J, 333

Baba H, 242
Balch CM, 676
Ballantyne AJ, 329
Bandai Y, 98
Bandyk DF, 501
Barnes DG, 356
Bartlett ST, 552, 614
Baxter BT, 197
Beare JP, 212
Belkin M, 277
Bell JL, 676
Bennett RS, 496
Berci G, 488
Bilo HJG, 490
Bismuth H, 105
Bitondo CG, 583
Bland KI, 663
Bongard F, 207
Bongard FS, 571
Boucher BA, 473
Bowers VD, 630
Bradley CA, 644
Bradley EL, 459
Brener BJ, 160
Brennan MF, 313
Brief DK, 160
Britton BH, 427
Broadwater JR, 676
Brooks D, 171
Bryant BJ, 229
Buisset E, 443
Bunt TJ, 226
Burch JM, 583

Cabrol J, 283
Calligaro KD, 192
Cambria RA, 151
Cameron JL, 128
Campbell BH, 424
Cangir A, 341
Cantelmo NL, 277
Cerra F, 466
Chan CH, 665
Chandrasekhar B, 450
Chen JC, 207
Cheung LY, 621
Chmiel JS, 344
Chu DZJ, 665
Churchill P, 598
Chvapil M, 618
Chvapil T, 618
Cikrit DF, 229
Clancy TV, 598
Clark OH, 337
Clayman GL, 434
Clowes AW, 257
Coche-Dequeant B, 443
Coffey BC, 473
Cohen R, 302
Coleman JJ III, 390
Collier P, 171
Cone JB, 652
Conlan AA, 529
Cook JM, 604
Corbally MT, 313
Cordero P, 160
Covington DL, 598
Cranley JJ, 202
Creighton D, 160
Cunningham MP, 344

Dalsing MC, 229
Dalton T, 171
Dardik H, 187
Davidson J, 226
Davis JW, 638
de Groot HGW, 481
DeLaurentis DA, 192
Delcore R, 621
Demeure MJ, 337
DeWeese JA, 148
Deysine M, 239
Dickson ME, 644
Dietzek AM, 182
Dikdan G, 151
DiMaio T, 373
Dodson TF, 117
Donker AJM, 490
Donohue RE, 634
Drascher G, 187
Duda RB, 344
Duh Q-Y, 337
Duvall TB, 212
Dzubow LM, 447

Edney JA, 625
Edwards MJ, 676
Ehler WJ, 519
Eidt JF, 604
Eisenbud DE, 160
Erickson EJ, 659
Evans WE, 217
Ezzat FA, 90

Fabian TC, 473
Farhood AI, 365
Feinberg RL, 166
Feliciano DV, 583
Fenoglio ME, 561
Ferguson CM, 459
Ferguson MK, 630
Ferrara A, 515
Fiegel VD, 466
Fields G, 583
Flinn WR, 197
Flock ST, 360
Flynn MB, 356
Foil MB, 638
Folse R, 455
Fonk T, 490
Fonkalsrud EW, 245, 506
Frankenthaler RA, 341
Fremgen A, 344
Friesen SR, 621
Furst SR, 638
Fylling CP, 466

Gad HA, 43
Galambos JT, 14
Galloway JR, 55, 117, 122
Gans ROB, 490
García-Tsao G, 86
Garnsey L, 306
Gayle RG, 166
Geary KJ, 148
Gerunda GE, 60
Gidley P, 415
Glagov S, 156
Goepfert H, 341, 348
Goldenkranz RJ, 160
Goldthorn JF, 644
Gordon D, 257
Grace ND, 26
Graham RA, 306
Green RM, 148
Greenfield AJ, 277
Gregory RT, 166
Greig PD, 75
Groff DB, 531
Guben J, 277
Guevara L, 86
Guillamondegui O, 415
Gump J, 396
Gupta SK, 182
Guyton DP, 291

Hacker KA, 610
Haenel JB, 647
Haick AJ, 457
Hajdu SI, 365
Halldorsson A, 618
Hamilton R, 447
Hankins P, 415
Hardy MER, 676
Haribhakti V, 352
Harris EJ, 212
Harrison LB, 420
Harward T, 604
Hasselfeld KA, 202
Hatchuel MD, 529
Haun WE, 561
Hayes JP, 217
Helling TS, 610
Henderson JM, 3, 55, 117, 122
Henderson MA, 676
Hernández-Cendejas A, 86
Hill GJ, 370
Hirata RM, 387
Hirthler MA, 644
Ho C-H, 630
Ho CM, 377, 439
Ho HC, 377
Hobson RW II, 151
Hocking MP, 496
Hoffmann RG, 424
Hofmann S, 625
Holcomb M, 618
Hollier LH, 179
Hopwood LE, 424
Horattas MC, 291
Hotokezaka M, 511
Hoyt DB, 638
Hunter D, 294
Hunter G, 618
Huston J, 160

Ibrahim IM, 187
Idezuki Y, 98
Ikeda S, 511
Inokuchi K, 48
Isomoto H, 262
Itoh H, 511

Jacques S, 360
Jaffe BM, 373
Jaffe N, 348
Jansen RFM, 481
Jaques DA, 387
Jessup JM, 306
Jin G, 93
Johnson WC, 277
Jurkiewicz MJ, 326

Kadowaki MH, 156
Kahn M, 187
Kahn MB, 604
Kakegawa T, 262
Kakeji Y, 242
Kalman PG, 175
Karp D, 501
Karpman R, 226
Kawasaki S, 98
Kelly J, 420
Kelly KA, 252
Kerr TM, 202
Kerstein MD, 179
Kessinger A, 625
Khojasteh A, 669
Killewich LA, 552
Kirkman TR, 257
Klein AS, 128
Klein SR, 207, 571
Kliger CH, 179
Klotch DW, 396
Knighton DR, 294, 466
Kohler L, 252
Kohler TR, 257
Kohnoe S, 242
Kolts RL, 533
Kopchok G, 556
Koury AM, 457
Kram HB, 182
Kraybill WG, 669
Krishnan UR, 160
Kroll S, 348
Kuehner ME, 533
Kuhl DA, 473
Kuhn L, 396

Laffey S, 171
Lalka SG, 229
Lam KH, 377, 439
Langer B, 75
Larson DL, 348
Lau SK, 439
Lau W, 280
Lawson M, 676
Lebrec D, 19
Ledwich T, 655
Lefebvre J-L, 443
Leigh B, 681
Leung JWC, 280
Li AKC, 280
Lick S, 618
Liguory C, 237
Little AG, 630
Liu FJ, 434
Lopez MJ, 669
Lopez-Viego MA, 594
Lorant JA, 450
Loree TR, 352, 410
Lorenz HP, 681
Lowry PA, 287
Lukash FN, 399
Lutter KS, 202
Lysz TW, 151

MacArthur JD, 515
Mackersie RC, 638
Maehara Y, 242
Maffei-Faccioli A, 60
Maguire SM, 356
Maki HS, 533
Makowka L, 111
Malone JM, 226
Martin RD, 175
Martinez SA, 356
Marx RE, 519
Mason EE, 500
Mathur S, 105
Matloub HS, 402
Mattox KL, 583
Mauro A, 187

Author Index, Volume 160

Abernathy CM, 647
Abu-Elmagd KM, 90
AbuRahma AF, 266
Adam R, 105
Adenis A, 443
Ainslie N, 434
Akagi M, 271
Allen R, 618
Alpert J, 160
Anderson RJ, 151
Andriole DP, 669
Applebaum R, 221
Attie JN, 333
Auguste L-J, 333

Baba H, 242
Balch CM, 676
Ballantyne AJ, 329
Bandai Y, 98
Bandyk DF, 501
Barnes DG, 356
Bartlett ST, 552, 614
Baxter BT, 197
Beare JP, 212
Belkin M, 277
Bell JL, 676
Bennett RS, 496
Berci G, 488
Bilo HJG, 490
Bismuth H, 105
Bitondo CG, 583
Bland KI, 663
Bongard F, 207
Bongard FS, 571
Boucher BA, 473
Bowers VD, 630
Bradley CA, 644
Bradley EL, 459
Brener BJ, 160
Brennan MF, 313
Brief DK, 160
Britton BH, 427
Broadwater JR, 676
Brooks D, 171
Bryant BJ, 229
Buisset E, 443
Bunt TJ, 226
Burch JM, 583

Cabrol J, 283
Calligaro KD, 192
Cambria RA, 151
Cameron JL, 128
Campbell BH, 424
Cangir A, 341
Cantelmo NL, 277
Cerra F, 466
Chan CH, 665
Chandrasekhar B, 450
Chen JC, 207
Cheung LY, 621
Chmiel JS, 344
Chu DZJ, 665
Churchill P, 598
Chvapil M, 618
Chvapil T, 618
Cikrit DF, 229
Clancy TV, 598
Clark OH, 337
Clayman GL, 434
Clowes AW, 257
Coche-Dequeant B, 443
Coffey BC, 473
Cohen R, 302
Coleman JJ III, 390
Collier P, 171
Cone JB, 652
Conlan AA, 529
Cook JM, 604
Corbally MT, 313
Cordero P, 160
Covington DL, 598
Cranley JJ, 202
Creighton D, 160
Cunningham MP, 344

Dalsing MC, 229
Dalton T, 171
Dardik H, 187
Davidson J, 226
Davis JW, 638
de Groot HGW, 481
DeLaurentis DA, 192
Delcore R, 621
Demeure MJ, 337
DeWeese JA, 148
Deysine M, 239
Dickson ME, 644
Dietzek AM, 182
Dikdan G, 151
DiMaio T, 373
Dodson TF, 117
Donker AJM, 490
Donohue RE, 634
Drascher G, 187
Duda RB, 344
Duh Q-Y, 337
Duvall TB, 212
Dzubow LM, 447

Edney JA, 625
Edwards MJ, 676
Ehler WJ, 519
Eidt JF, 604
Eisenbud DE, 160
Erickson EJ, 659
Evans WE, 217
Ezzat FA, 90

Fabian TC, 473
Farhood AI, 365
Feinberg RL, 166
Feliciano DV, 583
Fenoglio ME, 561
Ferguson CM, 459
Ferguson MK, 630
Ferrara A, 515
Fiegel VD, 466
Fields G, 583
Flinn WR, 197
Flock ST, 360
Flynn MB, 356
Foil MB, 638
Folse R, 455
Fonk T, 490
Fonkalsrud EW, 245, 506
Frankenthaler RA, 341
Fremgen A, 344
Friesen SR, 621
Furst SR, 638
Fylling CP, 466

Gad HA, 43
Galambos JT, 14
Galloway JR, 55, 117, 122
Gans ROB, 490
García-Tsao G, 86
Garnsey L, 306
Gayle RG, 166
Geary KJ, 148
Gerunda GE, 60
Gidley P, 415
Glagov S, 156
Goepfert H, 341, 348
Goldenkranz RJ, 160
Goldthorn JF, 644
Gordon D, 257
Grace ND, 26
Graham RA, 306
Green RM, 148
Greenfield AJ, 277
Gregory RT, 166
Greig PD, 75
Groff DB, 531
Guben J, 277
Guevara L, 86
Guillamondegui O, 415
Gump J, 396
Gupta SK, 182
Guyton DP, 291

Hacker KA, 610
Haenel JB, 647
Haick AJ, 457
Hajdu SI, 365
Halldorsson A, 618
Hamilton R, 447
Hankins P, 415
Hardy MER, 676
Haribhakti V, 352
Harris EJ, 212
Harrison LB, 420
Harward T, 604
Hasselfeld KA, 202
Hatchuel MD, 529
Haun WE, 561
Hayes JP, 217
Helling TS, 610
Henderson JM, 3, 55, 117, 122
Henderson MA, 676
Hernández-Cendejas A, 86
Hill GJ, 370
Hirata RM, 387
Hirthler MA, 644
Ho C-H, 630
Ho CM, 377, 439
Ho HC, 377
Hobson RW II, 151
Hocking MP, 496
Hoffmann RG, 424
Hofmann S, 625
Holcomb M, 618
Hollier LH, 179
Hopwood LE, 424
Horattas MC, 291
Hotokezaka M, 511
Hoyt DB, 638
Hunter D, 294
Hunter G, 618
Huston J, 160

Ibrahim IM, 187
Idezuki Y, 98
Ikeda S, 511
Inokuchi K, 48
Isomoto H, 262
Itoh H, 511

Jacques S, 360
Jaffe BM, 373
Jaffe N, 348
Jansen RFM, 481
Jaques DA, 387
Jessup JM, 306
Jin G, 93
Johnson WC, 277
Jurkiewicz MJ, 326

Kadowaki MH, 156
Kahn M, 187
Kahn MB, 604
Kakegawa T, 262
Kakeji Y, 242
Kalman PG, 175
Karp D, 501
Karpman R, 226
Kawasaki S, 98
Kelly J, 420
Kelly KA, 252
Kerr TM, 202
Kerstein MD, 179
Kessinger A, 625
Khojasteh A, 669
Killewich LA, 552
Kirkman TR, 257
Klein AS, 128
Klein SR, 207, 571
Kliger CH, 179
Klotch DW, 396
Knighton DR, 294, 466
Kohler L, 252
Kohler TR, 257
Kohnoe S, 242
Kolts RL, 533
Kopchok G, 556
Koury AM, 457
Kram HB, 182
Kraybill WG, 669
Krishnan UR, 160
Kroll S, 348
Kuehner ME, 533
Kuhl DA, 473
Kuhn L, 396

Laffey S, 171
Lalka SG, 229
Lam KH, 377, 439
Langer B, 75
Larson DL, 348
Lau SK, 439
Lau W, 280
Lawson M, 676
Lebrec D, 19
Ledwich T, 655
Lefebvre J-L, 443
Leigh B, 681
Leung JWC, 280
Li AKC, 280
Lick S, 618
Liguory C, 237
Little AG, 630
Liu FJ, 434
Lopez MJ, 669
Lopez-Viego MA, 594
Lorant JA, 450
Loree TR, 352, 410
Lorenz HP, 681
Lowry PA, 287
Lukash FN, 399
Lutter KS, 202
Lysz TW, 151

MacArthur JD, 515
Mackersie RC, 638
Maehara Y, 242
Maffei-Faccioli A, 60
Maguire SM, 356
Maki HS, 533
Makowka L, 111
Malone JM, 226
Martin RD, 175
Martinez SA, 356
Marx RE, 519
Mason EE, 500
Mathur S, 105
Matloub HS, 402
Mattox KL, 583
Mauro A, 187

Maxwell JG, 598
May M, 382
Mazzaferro V, 111
McCarthy WJ, 197
McCombs PR, 192
McCready DR, 676
McGee DC, 337
McGee GS, 197
McGreevy JM, 659
McGregor B, 567
McKenna PJ, 202
McMillen MA, 515
Medina JE, 427
Meduri F, 60
Meena AL, 457
Menzoian JO, 277
Mercado MA, 43, 86
Merenda R, 60
Merrick HW, 458
Mester S, 382
Mibu R, 511
Mickel TJ, 594
Miedema BW, 252
Millikan WJ Jr, 55, 117
Modlin IM, 515
Moeller DM, 202
Mohit-Tabatabai MA, 370
Moody M, 226
Moore EE, 647
Moore FA, 647
Moore JT, 561
Mordick TG, 447
Mori K, 271
Morimatsu M, 262
Morris JB, 535
Morrison P, 252
Morrison WH, 415
Morriss L, 567
Moskowitz G, 399
Murray DH Jr, 655
Muskett A, 659
Myburgh JA, 67
Myers SI, 287

Nagaraj HS, 531
Naito M, 271
Nakahara S, 511
Navarro X, 283
Neely JG, 427
Neri D, 60
Norton MJ, 577
Novick A, 160
Nozick J, 160

Oberg J, 221
O'Daniel TG, 356
Ohanian M, 370
Ohashi K, 98
Olsen DO, 485
Olthuis GAA, 481
Oohata Y, 511
Orozco H, 86
Ortiz JH, 86
Ota DM, 676
Ouriel K, 148

Paquet K-J, 43
Paredes JP, 525
Parent FN III, 166
Park AO, 427
Parsonnet V, 160
Patrick RD, 598
Pearce WH, 197
Pearlman NW, 634
Pecoraro JP, 187
Pentecost M, 221
Peterkin GA, 277
Peters LJ, 415
Petrasek PF, 175
Petro AB, 457
Phillips JD, 245
Pierce LW, 519
Polk HC Jr, 2
Popp-Snijders C, 490
Potel J, 525
Provan J, 302
Puente JL, 525

Raccuia S, 187
Raina S, 370
Rappaport W, 618
Rauwerda JA, 490
Recant W, 344
Reddick EJ, 485, 488
Reed MK, 287
Reznick RK, 302
Rice JC, 179
Rikkers LF, 80
Roedersheimer LR, 202
Rosenman JE, 212
Rothman A, 302
Rottier AB, 481
Rout WR, 496
Rush BF, 370
Russell JB, 665
Russell MP, 665
Russell P, 567
Rutherford EJ, 598

Salam AA, 90
Salman FT, 506
Sampson MG, 202
Samuels PB, 234
Sanders K, 567
Sanderson MC, 561
Sanger JR, 402
Sanjo K, 98
Santilli S, 294
Saunders JR Jr, 387
Savage HE, 434
Savarese RP, 192
Sawchuk AP, 229
Schaefer RF, 665
Schantz SP, 434
Schecter WP, 681
Schein M, 529
Schemmel JC, 424
Schiller WR, 588
Schmitt DD, 501
Schnaap D, 333
Schultz CC, 610
Schulz JE, 229
Scott C, 598
Scribner RG, 212
Seabrook GR, 501
Segalin A, 630
Segura R, 283
Sellin RV, 341
Serure A, 348
Shackford SR, 638
Shah JP, 352, 405
Shaha AR, 373
Sham JST, 439
Sheldon GF, 240
Shenk RR, 676
Sherlock D, 105
Sherlock S, 9
Shires GT III, 117
Shirouzu K, 262
Shiu MH, 365
Shoenfeld R, 160
Shuck JM, 471
Simo-Deu J, 283
Simoni J, 644
Singh TM, 156
Small S, 360
Smith FI, 179
Smith GJ, 676
Snyder SO Jr, 166
Sobol SM, 382
Soroff HS, 239
Spiro RH, 420
Spirtoff K, 202
Stanford GG, 577
Starzl TE, 111
Staszek VM, 630
Stellato TA, 535
Stern SJ, 360
Stewart M, 117
Stieber AC, 111, 300
Stiegmann GV, 634
Strong EW, 365, 410, 420
Sugimachi K, 48, 242
Sussman B, 187
Sutaria P, 352
Swanson MS, 638
Swanson RS, 676
Swartzendruber DJ, 561
Sydorak GR, 212
Sylvester J, 344

Tabbara M, 556
Takahashi K, 271
Takahashi T, 86
Tamir IL, 571
Tawes RL Jr, 146, 212
Tayapongsak P, 519
Taylor BR, 75, 302
Tenenbaum NS, 399
Terblanche J, 37
Terz JJ, 450
Thayer C, 614
Thomas JH, 547
Thompson C, 665
Thompson JS, 625
Thomsen S, 360
Tielve M, 86
Todo S, 111
Tolley EA, 473
Torres M, 182
Towne JB, 501
Tzakis AG, 111

Van JT, 443
van Geel AN, 481
van Putten WLJ, 481
Vega AL, 420
Veith FJ, 182
Vermilion BD, 217
Vitale GC, 237
Voyles CR, 457

Ward RE, 614
Warren WD, 4, 134
Watanabe A, 242
Weaver FA, 221
Webber C, 373
Weber RS, 415
Weersink EGL, 490
Wei WI, 377, 439
Weigelt JA, 577, 594
Wengerter KR, 182
Wenneker WW, 655
Westaby D, 32
Westbrook KC, 544
Wettlaufer JN, 634
Wheeler JR, 166
White RA, 556
Wilcox G, 171
Wilkes W, 337
Williams MD, 588
Williams R, 32
Wilson W, 681
Winkler JL, 202
Wolf P, 415
Wolodiger F, 187
Wooden WA, 390
Woodruff BA, 266
Woodward ER, 496
Wright HK, 515
Wu D, 291
Wu H-S, 630

Yamasaki Y, 271
Yao JST, 197
Yellin AE, 221
Young DH, 588
Yousif NJ, 402
Yu A, 187

Zangrandi F, 60
Zarins CK, 156
Zimmerman WD, 356
Zollinger RM, 535

Subject Index, Volume 160

Abdomen
Open versus closed diagnostic peritoneal lavage in the evaluation of abdominal trauma; 594
Acidosis
Hypothermia and acidosis worsen coagulopathy in the patient requiring massive transfusion; 515
Acquired immunodeficiency syndrome
Kaposi's sarcoma of the rectum in patients with the acquired immunodeficiency syndrome; 681
Adenoma
Whole organ sectioning of mixed parotid tumors; 377
Aminoglycosides
Algorithm for assessing renal dysfunction risk in critically ill trauma patients receiving aminoglycosides; 473
Amputation
Amputation prevention in an independently reviewed at-risk diabetic population using a comprehensive wound care protocol; 466
Editorial comment (E), 471
Effect of a failed distal reconstruction on the level of amputation; 217
Anesthesia
Epidural anesthesia as an adjunct to retroperitoneal aortic surgery; 187
Aneurysms
Distal embolization as a presenting symptom of aortic aneurysms; 197
Angiogenesis
The relationship of oxygen dose to angiogenesis induction in radiated tissue; 519
Angioplasty
Combined transluminal angioplasty and infrainguinal reconstruction in multilevel atherosclerotic disease; 277
Improved patient selection for angioplasty utilizing color Doppler imaging; 171
Initial results and subsequent outcome of laser thermal-assisted balloon angioplasty of 56 consecutive femoropopliteal lesions; 166
Antibiotics
Role of surgery in antibiotic-induced pseudomembranous enterocolitis; 535
Anticoagulation
An outpatient anticoagulation protocol managed by a vascular nurse-clinician; 501
Aorta
Distal embolization as a presenting symptom of aortic aneurysms; 197
Division of the left renal vein during aortic surgery; 192
Epidural anesthesia as an adjunct to retroperitoneal aortic surgery; 187
Appendicitis
Acute appendicitis in the pregnant patient; 571
A reappraisal of appendicitis in the elderly; 291
Arteries
Successful repair of pediatric popliteal artery trauma; 287
Arteriography
Role of routine arteriography in blunt lower-extremity trauma; 221
Atherosclerosis
Combined transluminal angioplasty and infrainguinal reconstruction in multilevel atherosclerotic disease; 277
Fish oil supplementation in patients with stable claudication; 490
Initial results and subsequent outcome of laser thermal-assisted balloon angioplasty of 56 consecutive femoropopliteal lesions; 166
In vitro and *in vivo* evaluation of intraluminal ultrasound in normal and atherosclerotic arteries; 556
Role of fibrinopeptide B in early atherosclerotic lesion formation; 156
Bile duct
Biliary perestroika (E), 237
Bleeding
A hepatologist's view of variceal bleeding; 26
Avoiding coagulopathy in vascular surgery; 212
Definitive therapy for variceal bleeding: a personal view; 80
Has sclerotherapy altered the management of patients with variceal bleeding? 37
Management of variceal bleeding in patients with extrahepatic portal vein thrombosis; 122
Role of the distal splenorenal shunt in management of variceal bleeding in Latin America; 86
Selective or total shunts for variceal bleeding; 75
Selective variceal decompression and its role relative to other therapies; 60
Status of sclerotherapy for variceal bleeding in 1990; 32
Surgical procedures for bleeding esophagogastric varices when sclerotherapy fails: a prospective study; 43
The selective shunt for variceal bleeding: a personal perspective; 48
Blood flow
Comparison of blood flow assessment between laser Doppler velocimetry and the hydrogen gas clearance method in ischemic intestine in dogs; 511
Noninvasive measurement of regional blood flow in man; 313
Role of eicosanoids and white blood cells in the beneficial effects of limited reperfusion after ischemia: reperfusion injury in skeletal muscle; 151
Bone graft
Long-term fate of the vascularized iliac crest bone graft for mandibular reconstruction; 399
Books
Book reviews; 142, 236, 324
Breast
Editorial comment (E), 663
Selective nonoperative management of patients referred with abnormal mammograms; 659
Budd-Chiari syndrome
Diagnosis and management of the Budd-Chiari syndrome; 128
Calculus
Choledochotomy for calculous disease in the elderly; 610
Cancer
Delayed reconstruction following Mohs' chemosurgery for skin cancers of the head and neck; 447
Editorial comment (E), 663
Efficacy of radical neck dissection for the control of cervical metastasis after radiotherapy for nasopharyngeal carcinoma; 439
Flow cytometric evaluation of chemosensitive and chemoresistant head and neck tumors; 424
Glucagonoma syndrome is an underdiagnosed clinical entity; 625
Immediate versus delayed shoulder exercises after axillary lymph node dissection; 481
Lateral temporal bone resections; 427
Local excision of rectal carcinoma; 306
Long-term effects of radiotherapy in childhood and adolescence; 348
Lymph node metastasis from papillary-follicular thyroid carcinoma in young patients; 341
Management of hepatocellular carcinoma presenting as obstructive jaundice; 280
Multimodality preoperative treatment for advanced stage IV (MO) cancer of the head and neck; 370
Multimodality therapy in locally advanced breast carcinoma; 669
Outpatient percutaneous central venous access in the cancer patient; 676
Patterns of cervical lymph node metastasis from squamous carcinomas of the upper aerodigestive tract; 405
Perioperative blood transfusion adversely affects prognosis of patients with stage I non-small-cell lung cancer; 630
Postgastrectomy prescription of mitomycin C and UFT for patients with stage IV gastric carcinoma; 242
Reflections of a cancer observer; 329
Selective nonoperative management of patients referred with abnormal mammograms; 659
Serologic determinants of survival in patients with squamous cell carcinoma of the head and neck; 434
Significance of positive margins in oral cavity squamous carcinoma; 410
Soft tissue sarcomas of the head and neck in adults; 365
Squamous carcinoma of the posterior pharyngeal wall; 420
Survival discriminants for differentiated thyroid cancer; 344
Treatment of rectal carcinoid tumors; 262
Treatment selection for carcinoma of the base of the tongue; 415
Variations in sensitivity after sectioning the intercostobrachial nerve; 525
When is polypectomy sufficient treatment for colorectal cancer in a polyp? 665
Cardiac disease
Early detection of myocardial contusion and its complications in patients with blunt trauma; 577
Stunned myocardium during extracorporeal membrane oxygenation; 644
The asymptomatic patient with suspected myocardial contusion; 638
Cardiovascular disease
Balloon catheter tamponade in cardiovascular wounds; 583
Catheterization
Balloon catheter tamponade in cardiovascular wounds; 583
Outpatient percutaneous central venous access in the cancer patient; 676
Chemotherapy
Flow cytometric evaluation of

chemosensitive and chemoresistant head and neck tumors; 424
Multimodality therapy in locally advanced breast carcinoma; 669
Children
Long-term effects of radiotherapy in childhood and adolescence; 348
Rectal prolapse in infants and children; 531
Chloroaluminum sulfonated phthalocyanine
Photodynamic therapy with chloroaluminum sulfonated phthalocyanine in the rat window chamber; 360
Cholecystectomy
Editorial comment (E), 488
Electrocautery is superior to laser for laparoscopic cholecystectomy (E), 457
Evaluation of duodenogastric reflux in gallstone disease before and after simple cholecystectomy; 283
Outpatient laparoscopic laser cholecystectomy; 485
Choledochotomy
Choledochotomy for calculous disease in the elderly; 610
Claudication
Fish oil supplementation in patients with stable claudication; 490
Clinical trials
Controlled clinical research: opportunities and problems for the surgeon; 4
Coagulation
Pathogenesis, diagnosis, and treatment of thrombosis; 547
Coagulopathy
Hypothermia and acidosis worsen coagulopathy in the patient requiring massive transfusion; 515
Colitis
Reconstruction of malfunctioning ileoanal pouch procedures as an alternative to permanent ileostomy; 245
Colon
Surgical management of the redundant transposed colon; 529
Cytometry
Flow cytometric evaluation of chemosensitive and chemoresistant head and neck tumors; 424
Diabetes
Amputation prevention in an independently reviewed at-risk diabetic population using a comprehensive wound care protocol; 466
Editorial comment (E), 471
Diagnosis-related groups
Impact of diagnosis-related groups on the quality of postoperative care of patients with neck dissections; 356
Dialysis
Surgical complications of continuous ambulatory peritoneal dialysis; 561
Doppler imaging
Improved patient selection for angioplasty utilizing color Doppler imaging; 171
Drug treatment
Current status and future goals of the pharmacologic reduction of portal hypertension; 19
Effects and limitations of pentoxifylline therapy in various stages of peripheral vascular disease of the lower extremity; 266
Postgastrectomy prescription of mitomycin C and UFT for patients with stage IV gastric carcinoma; 242
Editorials
Biliary perestroika; 237
Editorial comment; 240, 471, 488, 500, 663
Educational research in perspective; 458
Electrocautery is superior to laser for laparoscopic cholecystectomy; 457
Introduction; 3
Must we specialize herniorrhaphy for better results? 239
Preface from the editor; 2
The future of general surgery training; 455
Education
Biliary perestroika (E), 237
Challenges; 146
Educational research in perspective (E), 458
Not for the profession . . . for the people; 134
Reliability and validity of the objective structured clinical examination in assessing surgical residents; 302
The future of general surgery training (E), 455
The operation was a success, but. . .; 544
Eicosanoids
Role of eicosanoids and white blood cells in the beneficial effects of limited reperfusion after ischemia: reperfusion injury in skeletal muscle; 151
Elderly
Choledochotomy for calculous disease in the elderly; 610
Community hospital carotid endarterectomy in patients over age 75; 598
Electrocautery
Effect of electrocautery on wound healing in midline laparotomy incisions; 618
Electrocautery is superior to laser for laparoscopic cholecystectomy (E), 457
Embolism
Pathogenesis, diagnosis, and treatment of thrombosis; 547
Endarterectomy
Community hospital carotid endarterectomy in patients over age 75; 598
Endorectal pullthrough
Reconstruction of malfunctioning ileoanal pouch procedures as an alternative to permanent ileostomy; 245
Enterocolitis
Role of surgery in antibiotic-induced pseudomembranous enterocolitis; 535
Esophagus
Current strategy for esophageal varices in Japan; 98
Esophageal varices; 9
Surgical procedures for bleeding esophagogastric varices when sclerotherapy fails: a prospective study; 43
Ethanol
Ethanol diffuses across the gastric muscle wall; 567
Exercise
Immediate versus delayed shoulder exercises after axillary lymph node dissection; 481
Experimentation
Controlled clinical research: opportunities and problems for the surgeon; 4
Facial rehabilitation
Early facial reanimation following radical parotid and temporal bone tumor resections; 382
Fibrinopeptide
Role of fibrinopeptide B in early atherosclerotic lesion formation; 156
Fish oil
Fish oil supplementation in patients with stable claudication; 490
Gallstones
Evaluation of duodenogastric reflux in gallstone disease before and after simple cholecystectomy; 283
Gastrinomas
Characteristics of duodenal wall gastrinomas; 621
Gastrointestinal tract
Characteristics of duodenal wall gastrinomas; 621
Comparison of blood flow assessment between laser Doppler velocimetry and the hydrogen gas clearance method in ischemic intestine in dogs; 511
Current status of duplex Doppler ultrasound in the examination of the abdominal vasculature; 604
Ethanol diffuses across the gastric muscle wall; 567
Evaluation of duodenogastric reflux in gallstone disease before and after simple cholecystectomy; 283
Gastroplasty
Editorial comment (E), 500
Pouch outlet obstruction following vertical ring gastroplasty for morbid obesity; 496
Geriatrics
A reappraisal of appendicitis in the elderly; 291
Glucagonoma
Glucagonoma syndrome is an underdiagnosed clinical entity; 625
Grafts
Fate of the exposed saphenous vein graft; 148
Mechanism of long-term degeneration of arterialized vein grafts; 257
Use of a piezoelectric film sensor for monitoring vascular grafts; 182
Head and neck
Cervical lymph nodes from an unknown primary tumor in 190 patients; 443
Complications of the pectoralis major myocutaneous flap in head and neck reconstruction; 352
Definitive mandibular replacement using reconstruction plates; 387
Delayed reconstruction following Mohs' chemosurgery for skin cancers of the head and neck; 447
Early facial reanimation following radical parotid and temporal bone tumor resections; 382
Efficacy of radical neck dissection for the control of cervical metastasis after radiotherapy for nasopharyngeal carcinoma; 439
Flow cytometric evaluation of chemosensitive and chemoresistant head and neck tumors; 424
Head and neck surgery: ruminations; 326
Impact of diagnosis-related groups on the quality of postoperative care of patients with neck dissections; 356
Initial failure of surgical exploration in patients with primary hyperparathyroidism; 333

Lateral temporal bone resections; 427
Long-term fate of the vascularized iliac crest bone graft for mandibular reconstruction; 399
Mandibular reconstruction with composite microvascular tissue transfer; 390
Multimodality preoperative treatment for advanced stage IV (MO) cancer of the head and neck; 370
Needle aspiration biopsy in salivary gland lesions; 373
Parascapular free flaps for head and neck reconstruction; 450
Patterns of cervical lymph node metastasis from squamous carcinomas of the upper aerodigestive tract; 405
Reconstruction of mandibular defects in irradiated patients; 396
Reflections of a cancer observer; 329
Results of surgical treatment for hyperparathyroidism associated with renal disease; 337
Sequential connection of flaps: a logical approach to customized mandibular reconstruction; 402
Serologic determinants of survival in patients with squamous cell carcinoma of the head and neck; 434
Significance of positive margins in oral cavity squamous carcinoma; 410
Soft tissue sarcomas of the head and neck in adults; 365
Squamous carcinoma of the posterior pharyngeal wall; 420
Treatment selection for carcinoma of the base of the tongue; 415
Whole organ sectioning of mixed parotid tumors; 377

Hemorrhage
Balloon catheter tamponade in cardiovascular wounds; 583

Hernia
Editorial comment (E), 240
Must we specialize herniorrhaphy for better results? (E), 239

Home health care
Efficacy of home health care in patients with peripheral vascular disease; 179

Hospital
Community hospital carotid endarterectomy in patients over age 75; 598
Improved trauma care in a rural hospital after establishing a level II trauma center; 655

Hospitals
Tertiary trauma care in a rural state; 652

Hyperparathyroidism
Initial failure of surgical exploration in patients with primary hyperparathyroidism; 333
Results of surgical treatment for hyperparathyroidism associated with renal disease; 337

Hypertension
Current status and future goals of the pharmacologic reduction of portal hypertension; 19
Evaluation of patients with portal hypertension; 14
Options for elective treatment of portal hypertension in cirrhotic patients in the transplantation era; 105

Hypothermia
Hypothermia and acidosis worsen coagulopathy in the patient requiring massive transfusion; 515

Hypoxic
Hypoxic events in the surgical intensive care unit; 647

Ileocolonic urinary reservoirs
Continent ileocolonic urinary reservoirs for filling and lining the post-exenteration pelvis; 634

Ileostomy
Reconstruction of malfunctioning ileoanal pouch procedures as an alternative to permanent ileostomy; 245

Infections
Sartorius myoplasty for deep groin wounds following vascular reconstruction; 175

Infrainguinal reconstruction
The "all-autogenous" tissue policy for infrainguinal reconstruction questioned; 552

Intercostobrachial nerve
Variations in sensitivity after sectioning the intercostobrachial nerve; 525

Iodide peroxidase
Histochemical determination of iodide peroxidase activity in various thyroid disorders; 271

Jaundice
Management of hepatocellular carcinoma presenting as obstructive jaundice; 280

Kaposi's sarcoma
Kaposi's sarcoma of the rectum in patients with the acquired immunodeficiency syndrome; 681

Laparoscopy
Editorial comment (E), 488
Outpatient laparoscopic laser cholecystectomy; 485

Laparotomy
Effect of electrocautery on wound healing in midline laparotomy incisions; 618

Lasers
Comparison of blood flow assessment between laser Doppler velocimetry and the hydrogen gas clearance method in ischemic intestine in dogs; 511
Editorial comment (E), 488
Electrocautery is superior to laser for laparoscopic cholecystectomy (E), 457
Initial results and subsequent outcome of laser thermal-assisted balloon angioplasty of 56 consecutive femoropopliteal lesions; 166
Outpatient laparoscopic laser cholecystectomy; 485

Lavage
Open versus closed diagnostic peritoneal lavage in the evaluation of abdominal trauma; 594

Letters
Letters to the editor; 139, 235, 322

Liver
A hepatologist's view of variceal bleeding; 26
Diagnosis and management of the Budd-Chiari syndrome; 128
Evaluation of patients with portal hypertension; 14
Liver transplantation in patients with previous portasystemic shunt; 111
Management of hepatocellular carcinoma presenting as obstructive jaundice; 280
Options for elective treatment of portal hypertension in cirrhotic patients in the transplantation era; 105
Surgical rescue for failures of cirrhotic sclerotherapy; 117

Lymph nodes
Cervical lymph nodes from an unknown primary tumor in 190 patients; 443
Immediate versus delayed shoulder exercises after axillary lymph node dissection; 481
Lymph node metastasis from papillary-follicular thyroid carcinoma in young patients; 341

Mammography
Editorial comment (E), 663
Selective nonoperative management of patients referred with abnormal mammograms; 659

Mandibular reconstruction
Definitive mandibular replacement using reconstruction plates; 387
Long-term fate of the vascularized iliac crest bone graft for mandibular reconstruction; 399
Mandibular reconstruction with composite microvascular tissue transfer; 390
Reconstruction of mandibular defects in irradiated patients; 396
Sequential connection of flaps: a logical approach to customized mandibular reconstruction; 402

Markers
Can markers for pancreatic necrosis be used as indicators for surgery? 459

Mastectomy
Multimodality therapy in locally advanced breast carcinoma; 669
Variations in sensitivity after sectioning the intercostobrachial nerve; 525

Mohs' chemosurgery
Delayed reconstruction following Mohs' chemosurgery for skin cancers of the head and neck; 447

Muscle
Role of eicosanoids and white blood cells in the beneficial effects of limited reperfusion after ischemia: reperfusion injury in skeletal muscle; 151
Sartorius myoplasty for deep groin wounds following vascular reconstruction; 175

Needle aspiration biopsy
Needle aspiration biopsy in salivary gland lesions; 373

Obesity
Editorial comment (E), 500
Pouch outlet obstruction following vertical ring gastroplasty for morbid obesity; 496

Outpatient therapy
An outpatient anticoagulation protocol managed by a vascular nurse-clinician; 501

Oxygenation
Stunned myocardium during extracorporeal membrane oxygenation; 644

Oxygen dosing
The relationship of oxygen dose to angiogenesis induction in radiated tissue; 519

Pancreas
Can markers for pancreatic necrosis be used as indicators for surgery? 459
Glucagonoma syndrome is an underdiagnosed clinical entity; 625
Prevention of pancreatic fistula by modified pancreaticojejunal anastomosis; 533

Summary of Pancreas Club meeting: May 14, 1990, San Antonio, Texas; 462
Parascapular free flaps
Parascapular free flaps for head and neck reconstruction; 450
Parotid gland
Whole organ sectioning of mixed parotid tumors; 377
Pelvis
Continent ileocolonic urinary reservoirs for filling and lining the post-exenteration pelvis; 634
Pentoxifylline
Effects and limitations of pentoxifylline therapy in various stages of peripheral vascular disease of the lower extremity; 266
Photodynamic therapy
Photodynamic therapy with chloroaluminum sulfonated phthalocyanine in the rat window chamber; 360
Plasmapheresis
Avoiding coagulopathy in vascular surgery; 212
Pregnancy
Acute appendicitis in the pregnant patient; 571
Radiotherapy
Efficacy of radical neck dissection for the control of cervical metastasis after radiotherapy for nasopharyngeal carcinoma; 439
Long-term effects of radiotherapy in childhood and adolescence; 348
The relationship of oxygen dose to angiogenesis induction in radiated tissue; 519
Reconstruction surgery
Definitive mandibular replacement using reconstruction plates; 387
Mandibular reconstruction with composite microvascular tissue transfer; 390
Sequential connection of flaps: a logical approach to customized mandibular reconstruction; 402
Reconstructive surgery
Complications of the pectoralis major myocutaneous flap in head and neck reconstruction; 352
Parascapular free flaps for head and neck reconstruction; 450
Reconstruction of mandibular defects in irradiated patients; 396
The "all-autogenous" tissue policy for infrainguinal reconstruction questioned; 552
Rectum
Kaposi's sarcoma of the rectum in patients with the acquired immunodeficiency syndrome; 681
Local excision of rectal carcinoma; 306
Rectal prolapse in infants and children; 531
Treatment of rectal carcinoid tumors; 262
When is polypectomy sufficient treatment for colorectal cancer in a polyp? 665
Renal disease
Algorithm for assessing renal dysfunction risk in critically ill trauma patients receiving aminoglycosides; 473
Increased septic complications with three-drug sequential immunosuppression for cadaver renal transplants; 614
Results of surgical treatment for hyperparathyroidism associated with renal disease; 337
Surgical complications of continuous ambulatory peritoneal dialysis; 561
Reperfusion
Role of eicosanoids and white blood cells in the beneficial effects of limited reperfusion after ischemia: reperfusion injury in skeletal muscle; 151
Research
Educational research in perspective (E), 458
Reviews
Local excision of rectal carcinoma; 306
Noninvasive measurement of regional blood flow in man; 313
Robots
Hepatic transplantation with the aid of the iron intern retractor; 300
Roux limb
Electrical dysrhythmias in the roux jejunal limb: cause and treatment; 252
Salivary gland
Needle aspiration biopsy in salivary gland lesions; 373
Sarcomas
Soft tissue sarcomas of the head and neck in adults; 365
Schistosomiasis
Selective shunt in schistosomiasis in Egypt; 90
Sclerotherapy
Has sclerotherapy altered the management of patients with variceal bleeding? 37
Status of sclerotherapy for variceal bleeding in 1990; 32
Surgical procedures for bleeding esophagogastric varices when sclerotherapy fails: a prospective study; 43
Surgical rescue for failures of cirrhotic sclerotherapy; 117
Sensors
Use of a piezoelectric film sensor for monitoring vascular grafts; 182
Sepsis
Increased septic complications with three-drug sequential immunosuppression for cadaver renal transplants; 614
Serologic studies
Serologic determinants of survival in patients with squamous cell carcinoma of the head and neck; 434
Shunts
Current status of the distal splenorenal shunt in China; 93
Liver transplantation in patients with previous portasystemic shunt; 111
Role of the distal splenorenal shunt in management of variceal bleeding in Latin America; 86
Selective or total shunts for variceal bleeding; 75
Selective shunt in schistosomiasis in Egypt; 90
Selective shunts: the Johannesburg experience; 67
The Emory perspective of the distal splenorenal shunt in 1990; 55
The selective shunt for variceal bleeding: a personal perspective; 48
Skin
Delayed reconstruction following Mohs' chemosurgery for skin cancers of the head and neck; 447
Spermatic vascular division
Effects of spermatic vascular division for correction of the high undescended testis on testicular function; 506
Spleen
The trend toward nonoperative management of splenic injuries; 588
Stomach
Postgastrectomy prescription of mitomycin C and UFT for patients with stage IV gastric carcinoma; 242
Surgical intensive care
Hypoxic events in the surgical intensive care unit; 647
Surgical training
The future of general surgery training (E), 455
The operation was a success, but. . .; 544
Techniques
Biliary perestroika (E), 237
Hepatic transplantation with the aid of the iron intern retractor; 300
Prevention of pancreatic fistula by modified pancreaticojejunal anastomosis; 533
Rectal prolapse in infants and children; 531
Saphenous vein *in situ* bypass; 294
Surgical management of the redundant transposed colon; 529
Temporal bone resections
Lateral temporal bone resections; 427
Testis
Effects of spermatic vascular division for correction of the high undescended testis on testicular function; 506
Thrombosis
Management of variceal bleeding in patients with extrahepatic portal vein thrombosis; 122
Pathogenesis, diagnosis, and treatment of thrombosis; 547
Upper extremity venous thrombosis diagnosed by duplex scanning; 202
Thyroid
Histochemical determination of iodide peroxidase activity in various thyroid disorders; 271
Thyroid disease
Lymph node metastasis from papillary-follicular thyroid carcinoma in young patients; 341
Survival discriminants for differentiated thyroid cancer; 344
Tongue
Treatment selection for carcinoma of the base of the tongue; 415
Transfusion
Hypothermia and acidosis worsen coagulopathy in the patient requiring massive transfusion; 515
Transplantation
Hepatic transplantation with the aid of the iron intern retractor; 300
Increased septic complications with three-drug sequential immunosuppression for cadaver renal transplants; 614
Liver transplantation in patients with previous portasystemic shunt; 111
Options for elective treatment of portal hypertension in cirrhotic patients in the transplantation era; 105
Surgical rescue for failures of cirrhotic sclerotherapy; 117
Trauma
Algorithm for assessing renal dysfunction risk in critically ill trauma patients

receiving aminoglycosides; 473
An experience with upper-extremity vascular trauma; 229
Early detection of myocardial contusion and its complications in patients with blunt trauma; 577
Frequency of vascular injury with blunt trauma-induced extremity injury; 226
Improved trauma care in a rural hospital after establishing a level II trauma center; 655
Open versus closed diagnostic peritoneal lavage in the evaluation of abdominal trauma; 594
Role of routine arteriography in blunt lower-extremity trauma; 221
Successful repair of pediatric popliteal artery trauma; 287
Tertiary trauma care in a rural state; 652
The asymptomatic patient with suspected myocardial contusion; 638
The trend toward nonoperative management of splenic injuries; 588

Ultrasound
Current status of duplex Doppler ultrasound in the examination of the abdominal vasculature; 604
In vitro and *in vivo* evaluation of intraluminal ultrasound in normal and atherosclerotic arteries; 556

Urokinase
Treatment of acute vascular occlusions with intra-arterial urokinase; 160

Vascular disease
An experience with upper-extremity vascular trauma; 229
Current status of duplex Doppler ultrasound in the examination of the abdominal vasculature; 604
Effect of a failed distal reconstruction on the level of amputation; 217
Effects and limitations of pentoxifylline therapy in various stages of peripheral vascular disease of the lower extremity; 266
Efficacy of home health care in patients with peripheral vascular disease; 179
Frequency of vascular injury with blunt trauma-induced extremity injury; 226
Treatment of acute vascular occlusions with intra-arterial urokinase; 160

Vascular reconstruction
Sartorius myoplasty for deep groin wounds following vascular reconstruction; 175

Vascular surgery
An outpatient anticoagulation protocol managed by a vascular nurse-clinician; 501
By popular demand; 234

Veins
A comtemporary perspective on superior vena cava syndrome; 207
A hepatologist's view of variceal bleeding; 26
Current strategy for esophageal varices in Japan; 98
Definitive therapy for variceal bleeding: a personal view; 80
Diagnosis and management of the Budd-Chiari syndrome; 128
Division of the left renal vein during aortic surgery; 192
Esophageal varices; 9
Fate of the exposed saphenous vein graft; 148
Has sclerotherapy altered the management of patients with variceal bleeding? 37
Management of variceal bleeding in patients with extrahepatic portal vein thrombosis; 122
Saphenous vein *in situ* bypass; 294
Selective or total shunts for variceal bleeding; 75
Selective variceal decompression and its role relative to other therapies; 60
Status of sclerotherapy for variceal bleeding in 1990; 32
Surgical procedures for bleeding esophagogastric varices when sclerotherapy fails: a prospective study; 43
The Emory perspective of the distal splenorenal shunt in 1990; 55
The selective shunt for variceal bleeding: a personal perspective; 48
Upper extremity venous thrombosis diagnosed by duplex scanning; 202

Vena cava syndrome
A comtemporary perspective on superior vena cava syndrome; 207

W. Dean Warren, MD
Introduction (E), 3
Preface from the editor (E), 2

Zollinger-Ellison syndrome
Characteristics of duodenal wall gastrinomas; 621